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10/019,448       04/08/2002       Yasutaka Ito       217551US2PCT       4361         22850       7590       07/28/2003	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	, ATTORNEY DOCKET NO.	CONFIRMATION NO.
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314  EXAMINER  LAM, CATHY FONG FONG	10/019,448 04/08/2002		Yasutaka Ito	217551US2PCT	4361
1940 DUKE STREET ALEXANDRIA, VA 22314  LAM, CATHY FONG FONG	22850 7:	590 · 07/28/2003			
ALEXANDRIA, VA 22314 LAM, CATHY FONG FONG	•	•	EXAMINER		
			LAM, CATHY FONG FONG		
ART UNIT PAPER NUMBER	ALEXANDRIA	A, VA 22314			
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1775			•	1775	14
DATE MAILED: 07/28/2003				- L	

Please find below and/or attached an Office communication concerning this application or proceeding.

					A5H		
•		Application No.		Applicant(s)			
		10/019,448		ITO ET AL.			
Office Action Summary		Examiner		Art Unit			
		Cathy Lam		1775			
The MA Period for Reply	ILING DATE of this communication ap	pears on the cove	r sheet with the c	orrespondence add	Iress		
THE MAILING  - Extensions of time after SIX (6) MON  - If the period for re  - If NO period for re  - Failure to reply with  - Any reply received	D STATUTORY PERIOD FOR REPL DATE OF THIS COMMUNICATION. e may be available under the provisions of 37 CFR 1. THS from the mailing date of this communication. ply specified above is less than thirty (30) days, a rep ply is specified above, the maximum statutory period thin the set or extended period for reply will, by statut by the Office later than three months after the mailin in adjustment. See 37 CFR 1.704(b).	136(a). In no event, how oly within the statutory min will apply and will expire te, cause the application t	ever, may a reply be tim nimum of thirty (30) days SIX (6) MONTHS from o become ABANDONEI	nely filed s will be considered timely, the mailing date of this co D (35 U.S.C. § 133).			
1)⊠ Respon	sive to communication(s) filed on <u>Ma</u>	ay 27 <sup>th</sup> 2003 .					
2a)⊠ This ac	tion is <b>FINAL</b> . 2b) T	his action is non-f	inal.				
	nis application is in condition for allow in accordance with the practice under				e merits is		
Disposition of Cla	aims						
4)⊠ Claim(s)	17-21 is/are pending in the applicati	ion.					
4a) Of the	e above claim(s) is/are withdra	awn from consider	ration.				
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>17-21</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s)  Application Pape	are subject to restriction and/	or election require	ment.				
	ification is objected to by the Examin	er.					
,— ,	ing(s) filed on is/are: a)☐ acce		ted to by the Exa	miner.			
•	nt may not request that any objection to the		•				
11)☐ The prope	osed drawing correction filed on	_ is: a)∏ approv	ed b)⊡ disappro	ved by the Examine	۱ <b>۲.</b>		
If appro	ved, corrected drawings are required in re	eply to this Office ac	tion.				
12)∐ The oath	or declaration is objected to by the E	xaminer.					
Priority under 35	U.S.C. §§ 119 and 120						
13) Acknowl	edgment is made of a claim for foreig	n priority under 3	5 U.S.C. § 119(a	)-(d) or (f).			
a)∏ All b)	☐ Some * c)☐ None of:						
1. Certified copies of the priority documents have been received.							
2.☐ Ce	2. Certified copies of the priority documents have been received in Application No						
	opies of the certified copies of the pric application from the International B ttached detailed Office action for a lis	ureau (PCT Rule	17.2(a)).		3tage		
	dgment is made of a claim for domes		•		application).		
a) 🗌 The	translation of the foreign language pr dgment is made of a claim for domes	ovisional applicat	ion has been rec	eived.			
Attachment(s)	againstic in and or a diamin for admito	pom, andor c		Salar of Tall.			
Notice of Reference     Notice of Draftsp	nces Cited (PTO-892) person's Patent Drawing Review (PTO-948) losure Statement(s) (PTO-1449) Paper No(s) <u>1</u>	4) 5) 1 <u>3</u> . 6)	Notice of Informal F	/ (PTO-413) Paper No(s Patent Application (PTC			
I.S. Patent and Trademark Office					_		

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In view of the amendment and remarks filed on May 27<sup>th</sup> 2003, the pending claims are continued to be unpatentable as following:

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Niwa (US 6475606) in view of Bogdanski et al (US 6150636) or Soma et al (US 5231690).

Niwa discloses a ceramic heater comprised of a ceramic substrate and a resistance heating element.

The ceramic substrate is an inorganic material which is a nitride ceramic material (col 3 L 64-67). The ceramic substrate has a thickness not exceeding 25 mm and a diameter of not less than 200 mm (col 3 L 28-30 & L 49-52). The resistance heating element is disposed on the bottom face of the ceramic substrate (col 6 L 41-43). The examiner takes the position that the bottom face is the first surface of the ceramic substrate. From Fig. 3 the ceramic heater has a disc shape.

Niwa is silent about the circumference of the heating element is within 35mm from the side face of the ceramic substrate.

Bogdanski teaches an electric hotplate comprised of a circular shape ceramic substrate and a resistance heating element (col 6 L 20-22 & L 34-35).

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Bogdanski further teaches that the heating element extends up to a distance from the outer rim of the ceramic substrate, preferably over the entire upper cooking surface of the electric hotplate (col 6 L 46-50).

Soma also teaches a heater comprised of an inorganic substrate and a resistance heating element (col 3 L 9-14 & L 49-51).

The resistance heating element (7) is formed within the silicon nitride substrate (6) and over the entire discoidal substrate (6) (col 6 L 10-12 & Fig. 3).

In view of the prior art teachings, it would have been conventional and obvious that a heater would having a heating element that is at least formed over half of the ceramic substrate or over the entire ceramic substrate (ie. from the center of the substrate), because it would give a more uniform heating and cooling to the entire ceramic substate.

## Response to Arguments

3. Applicant's arguments filed on May 27<sup>th</sup> 2003 have been fully considered but they are not persuasive. In response to applicant's arguments against the Bogdanski and Soma references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Bogdanski and Soma were used to show that having a resistance heating element over the entire surface of the ceramic substrate, or very close to the edge of the ceramic substrate is conventional.

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## Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (703) 308-2418. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (703) 308-3822. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9604 for regular communications and (703) 872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

0661.

Cathy Lam

Primary Examiner Art Unit 1775 Page 5

cfl July 26, 2003